

FS SERIES LED (FSL)



Frequently Asked Questions

Q. Which configurations of the FSL are stocked?

- A. For 2'x2': 2FSL2 33L EZ1 LP835
2FSL2 33L EZ1 LP840
For 2'x4': 2FSL4 40L EZ1 LP835
2FSL4 40L EZ1 LP840

Q. What is the lead time for other configurations?

- A. The Manufacturing lead time is 5 days.

Q. What is the pallet quantity?

- A. For 2'x2': 32
For 2'x4': 16

Q. Is the FSL DLC qualified?

- A. Yes. At launch, all configurations of the FSL are DesignLights Consortium® qualified product. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

CONFIGURATIONS

Q. What kelvin temperatures do we offer?

- A. We offer 3000K, 3500K, 4000K, and 5000K.

Q. Which lumen packages are available?

- A. For the 2x2 we offer: 2000, 3300, and 4000 lumens.
For the 2x4 we offer: 3000, 4000, 4800, 6000, and 7200 lumens.

Q. Is the EL, Emergency battery pack, option available?

- A. Yes. The EL option is available in the 700 and 1400 lumen versions for both the 2'x2' and 2'x4' configurations.

CONSTRUCTION

Q. What lens options are available?

- A. The FS Series is only available with the Satin White lens at this time.

Q. Is 347 volt available?

- A. Yes. Both the 2'x2' and 2'x4' are available in 347V.

PERFORMANCE

Q. What is the efficacy?

- A. The 2'x4' configuration delivers 97 to 118 lumens per watt (LPW). The 2'x2' configuration delivers 93 to 114 LPW. Refer to www.lithonia.com/FSL for reference to .IES files for all lumen packages.

Q. What listing do we offer?

- A. CSA listing to meet U.S. and Canadian standards.

Q. How low will the 0-10v dimmer operate?

- A. The standard eldoLED® high-performance driver will dim to 1%. For other dimming options please consult our spec sheet.

Q. Is the FSL Series LED enabled with nLight® technology?

- A. The FS Series is offered with the nLight® N80, N80EMG, N100, or N100EMG integrated options.

Q. Does this product qualify for the TIP program?

- A. Yes, see sample program on LLWeb.

DRIVERS

See reverse/page 2 for DRIVERS FAQs



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Frequently Asked Questions *continued...*

DRIVERS

Q. What is the difference between the new driver options in the catalog number?

A. You must specify the driver manufacturer, control type and dimming performance.

EZ1 the standard, is an **eldoLED ECOdrive**, **Z**ero (0) to 10V input, that dims to **1%**.

EZB is an optional **eldoLED SOLOdrive**, **Z**ero (0) to 10V input, that dims to **black**.

EDB is an optional **eldoLED SOLOdrive**, **D**ali input, that dims to **black**.

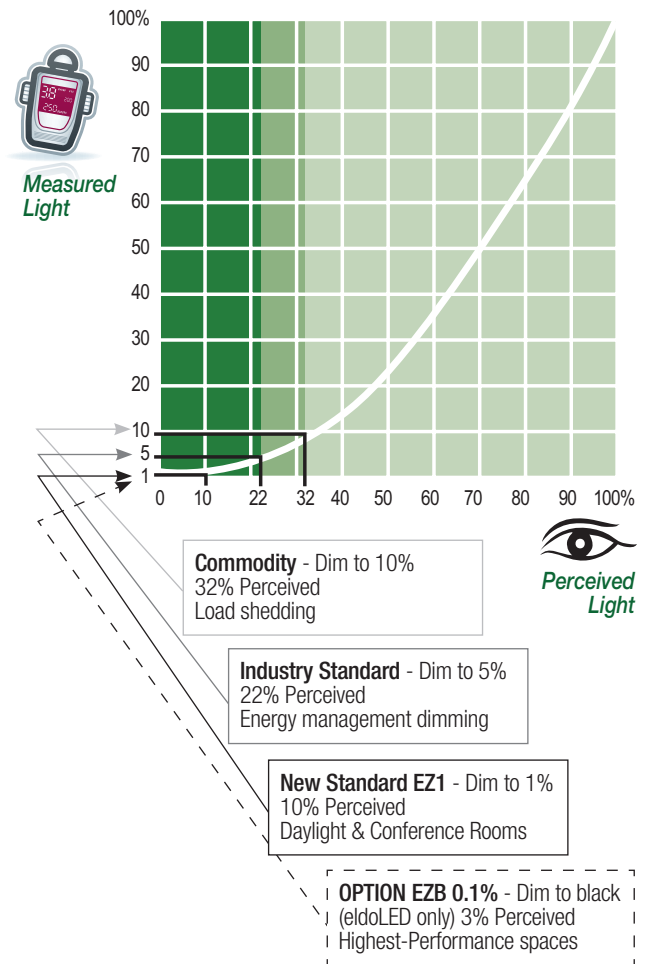
EXB is an optional **eldoLED POWERdrive**, **DMX/RDM** input, that dims to **black**.

Q. What are the advantages of the eldoLED drivers?

- A. eldoLED® drivers provide the highest quality and performance in the industry, allowing LED dimming with the exceptional quality previously available only with incandescent and unparalleled electronic performance:
- Best resolution – continuous without any visible steps
 - Best dimming range or contrast - down to 1% or even 0.1% then dim to black.
 - Flicker-free - LED's driven from eldoLED drivers do not produce any perceivable, or visible stroboscopic flicker to assure the highest quality of light. (http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/poplawski_dimming_lightfair2012.pdf)
 - Low inrush – eldoLED drivers operate well below the NEMA 410 standard for drivers and electronic ballasts, and 50W and below drivers have inrush so low it is difficult to measure. This low inrush, published on eldoLED tech sheets, does not create current surges that can damage controls, or spikes that can damage or disrupt other equipment on site. (http://en.wikipedia.org/wiki/Inrush_current)
 - Low EMI – eldoLED drivers produce very little interference that could disrupt other equipment, eliminating the need for external filters (Ferrite beads) that are used in other designs to choke off noise. (http://en.wikipedia.org/wiki/Electromagnetic_interference)
 - High Efficiency – 89% full load efficiency means that more LPW are delivered from the luminaire, advanced electronic off means fewer watts are consumed when fixture is electronically turned off (<0.5W)
 - Output Accuracy – eldoLED drivers are programmable and deliver exactly the drive conditions to the LED's to meet the expected light level of the luminaire.

Q. Why is Acuity Brands changing the LED dimming standard from 5% to 1%, and when would I choose dim to black in an application?

A. The chart below shows the relationship between what the light-meter reads and what the eye perceives in terms of light levels.



5% dimming with efficient electronic off, previously the LED standard in commercial indoor, is appropriate for many energy management and personal control applications. 5% dimming or 22% perceived light output falls short in conference rooms and can draw unwanted attention when turning off in daylight dimming applications.

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Frequently Asked Questions *continued...*

DRIVERS *continued*

1% dimming, the new standard, works even better for energy management, allowing lights to turn off without distraction when daylight dimming, and in addition can be used for creating an appropriately low light level when used in conference and meeting spaces, in addition these drivers can be wired for on/off operation, without dimming, from a wall switch.

0.1% then dim to black, a cost adder and eldoLED exclusive, that provides premium performance in applications such as restaurants, board rooms, theatres and houses of worship where incandescent dimming performance coupled to LED efficiency is essential. In addition to stable light output at 0.1% (incandescent by comparison is 0.06%) the source will then smoothly fade between this level and black, and more importantly will reverse between black and 0.1% for truly beautiful dimming performance. This is a much more natural experience for the human eye. Please be aware this is not .9% better than the standard product it is 10 times lower, and 50 times lower than 5% dimming.

Q. 1% dimming has always been priced at a premium – is a deduct available to go to lower performance dimming?

A. eldoLED ECOdrive delivers 1% dimming without a cost penalty, LED systems are continuously improving and delivering more, without paying more. Making it standard provides you with the ability to:

Meet customers high expectations for LED technology, providing seamless daylight dimming, and conference room light level adjustment – without the need to specify high cost premium products and create separate fixture types for these locations.

Lead with specified benefits, dimming range, inrush and flicker-free performance but not charge a premium verses lesser offerings from others when the job is specified at the performance level of others.

Offer One Company responsibility for a project outcome of superior performance, delivery and value. Luminaires, electronics and drivers are all designed, manufactured and supplied under the Acuity Brands umbrella.

Q. Can the “EZ1” and “EZB” drivers work with nLight?

A. Yes the “EZ1” interfaces with N100 and N80 options and provides power to the nLight network and auxiliary controls. The EZB can connect to the nLight network with N100 and N80 options, but network power needs to be provided from auxiliary nLight devices. Both can electronically connect to other nLight controlled fixtures but, of course, low end dimming range will be different.

Q. Where can I get additional information about eldoLED?

A. The eldoLED ECOdrive series datasheet is available on the FSL product page on Lithonia.com/FSL. SOLOdrive and POWERdrive technical information are found at <http://www.eldoled.com/>.

VISIT LITHONIA.COM/FSL
FOR FULL SPECIFICATION INFORMATION